| Notice of Allowability | Application No. | n No. Applicant(s) | |
|--|---|---|----------|
| | 10/538,638 | FRANCIS ET AL. | |
| | Examiner | Art Unit | _ |
| | Shean C. Wu | 1756 | |
| The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS Is herewith (or previously mailed), a Notice of Allowance (PTOL-8: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3 | S (OR REMAINS) CLOSED i 5) or other appropriate comm RIGHTS. This application is | n this application. If not included unication will be mailed in due cours | se. THIS |
| 1. ☑ This communication is responsive to <u>1/18/07</u> . | | | |
| 2. ☑ The allowed claim(s) is/are <u>1-16 and 18-33</u> . | | | |
| Acknowledgment is made of a claim for foreign priority (a) All b) Some* c) None of the: 1. Certified copies of the priority documents had: 2. Certified copies of the priority documents had: 3. Copies of the certified copies of the priority documents had: 4. Certified copies of the priority documents had: 5. Copies of the certified copies of the priority documents had: 6. Certified copies of the priority documents had: 7. Certified copies not received: 8. Certified copies not received: 9. Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | ve been received. ve been received in Application locuments have been received " of this communication to file | on No d in this national stage application f | |
| 4. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi | | | E OF |
| 5. CORRECTED DRAWINGS (as "replacement sheets") me | ust be submitted. | | |
| (a) including changes required by the Notice of Draftspe | erson's Patent Drawing Review | w (PTO-948) attached | |
| 1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date | • | | |
| (b) including changes required by the attached Examine Paper No./Mail Date | r's Amendment / Comment o | r in the Office action of | |
| Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in | | | i) of |
| DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT | osit of BIOLOGICAL MAT TFOR THE DEPOSIT OF BI | ERIAL must be submitted. Note to DLOGICAL MATERIAL. | the |
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| Attachment(s) | E 🗆 Nation of In | Samuel Data of Analis of an | |
| Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) | | formal Patent Application ummary (PTO-413), | |
| 3. ☐ Information Disclosure Statements (PTO/SB/08), | Paper No. | /Mail Date Amendment/Comment | |
| Paper No./Mail Date | | | |
| Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. ⊠ Examiner's 9. ☐ Other | Statement of Reasons for Allowand | ce |
| | | Shean C Wu Primary Examiner Art Unit: 1756 | |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the specification, line 15 on page 3, insert

--Brief Description of the Drawings

Figure 1. Illustration of zenithal bistability using grating alignment (with the lines indicating the local director) showing a) the high tilt (continuous) and b) the low tilt (defect) states.

Figure 2. The a) VAN and b) TN geometries for ZBD showing the director distribution of the high and low tilt states.

Figure 3. The τ -V curve for MLC-6204-000 at 25°C (pulse duration or time slot vs. voltage). The switching voltage ($V_{100\mu s}$) and operating window ($\Delta V_{400\mu s}$) used for comparisons are indicated. --.

In Claims 5 and 23, line 2, insert -- further -- after "component (α)" to clarify the claim language.

In Claim 7, line 1, delete "Use of a liquid crystal composition" to correct typographical errors.

2. The following is an examiner's statement of reasons for allowance:

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The present claims differ from the prior art in that the prior art fails to disclose a bistable liquid crystal device and a method of generating an electrooptical effect thereof comprising a liquid crystal composition of the present claims 1 and 19.

The present liquid crystal medium (claims 15-16, 18 and 32) differs from the references newly cited in pto-892 in that the references fail to disclose the percentages of components in the present claim 15, which comprises at least one compound of formula I and at least one formula III with an alkenyl group at left-wing. The present medium has better liquid crystal properties than the references (see examples 9 and 10 of US 6,902,777 and examples 2-4 of US 6,902,776, examples 3 and 6 of US 6,808,763). Therefore, there is no obviousness-type double patenting issue.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shean C. Wu whose telephone number is 571-272-1393. The examiner can normally be reached on 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner
Art Unit 1756

scw